INVESTIGATING ECONOMIC INDICATORS WEBINAR SERIES

Manufacturing: Products and Goods across Indicators

Jan Lattimore

Economic Indicators Division

December 16, 2015



SUBMIT QUESTIONS VIA CHAT TO ASK CENSUS

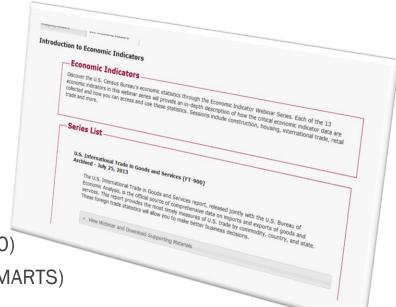
Jan Lattimore is a Survey Statistician currently with the Manufacturer's Shipments, Inventories, and Orders Branch. Since joining the Census Bureau in 1998, Jan has worked in the International Trade Indicator Programs, the Retail Indicator Branch, and the Wholesale Indicator Branch, all within the Economic Indicators Division.

Prior Webinar Series

Available at: www. census.gov/econ/webinar "Intro to Economic Indicators" Tab

Webinars Include:

- U.S. International Trade in Goods and Services (FT-900)
- Advance Monthly Sales for Retail and Food Services (MARTS)
- New Residential Construction and Sales (NRC & NRS)
- Monthly Wholesale Trade Survey (MWTS)
- Quarterly Financial Report Manufacturing, Mining, Wholesale Trade, and Selected Service Industries (QFRM) & Retail Trade (QFRR)
- Advance Report on Durable Goods Manufacturers' Shipments, Inventories, and Orders (AdvM3) & Manufacturers' Shipments, Inventories, and Orders (M3)
- Housing Vacancies and Homeownership (HVS)
- Construction Put in Place (VIP)
- Quarterly Services Survey (QSS)



Webinar Series Overview

Date	Webinar Topic				
April 8, 2015	Measuring Our Economy: A Brief Overview of the Census Bureau's Economic Indicators				
May 20, 2015	Navigating Indicator Databases				
July 8, 2015	Understanding Construction and Housing Statistics				
September 23, 2015	Measuring Our Evolving Economy: Exploring the Quarterly Financial Report and Quarterly Services Survey's Role in Tracking the Service Industries				
October 28, 2015	Wholesale, Retail, and International Trade Indicators in a Global Marketplace				
November 4, 2015	Exciting Changes within USA Trade Online				
December 16, 2015	Manufacturing: Goods and Products across Indicators				
January 27, 2016	Recent and Upcoming Indicator Improvements				
ТВА	The Building Blocks of Gross Domestic Product (GDP)				
ТВА	Matching Monthly Indicators to Annual Surveys and 5-Year Economic Censuses: How the Data Relate				

Webinar Overview

- Defining Manufacturing
- Manufacturing : GDP & Labor
- Products across Indicators
- Related and Other Economic Indicators
- Other Manufacturing Information Resources
- Census Bureau Tools, Apps, & Training
- Q&A



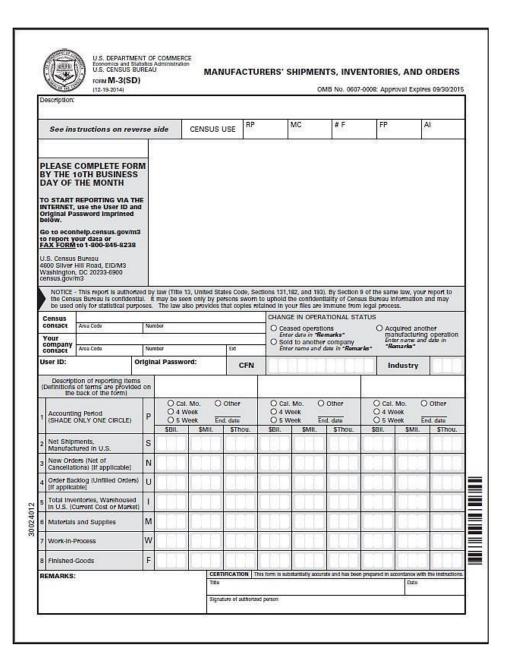
Manufacturing

Industries comprised of establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products.

The assembling of component parts of manufactured products is considered manufacturing, except in cases where the activity is defined as Construction.

Source: North American Industry Classification System, 2012

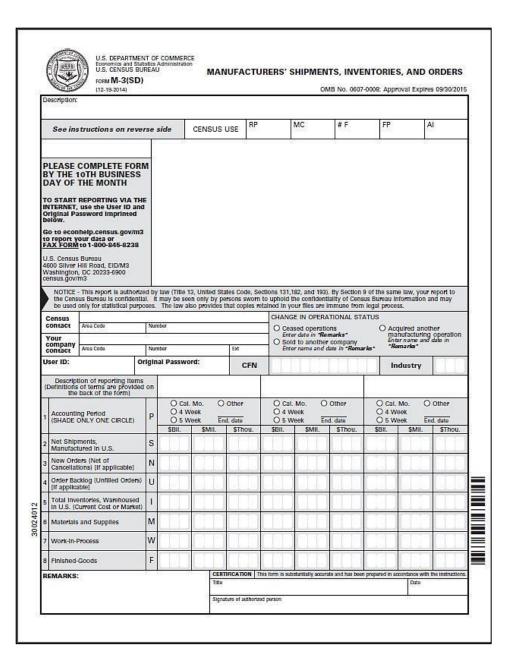
The Manufacturers' Shipments, Inventories, and Orders (M3)
Survey





The M3 Survey...

Provides broad-based monthly statistical data on current economic conditions and indications of future production commitments in the manufacturing sector.

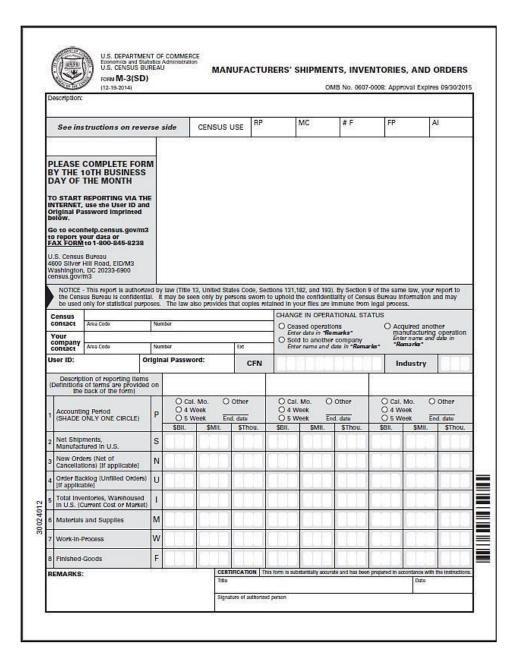




The M3 Survey...

Provides broad-based monthly statistical data on current economic conditions and indications of future production commitments in the manufacturing sector.

Provides measures of both current and future manufacturing activity in current dollars, both seasonally and not seasonally adjusted, during a calendar month.



Definitions Used in the Webinar

NAICS -

The North American Industry Classification System (NAICS) is the standard currently used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the U.S. business economy.

SIC -

The Standard Industrial Classification (SIC) system was the predecessor to the current NAICS used to classify establishments by type of activity in which they were primarily engaged.

Created for the purposes of facilitating the collection, tabulation, presentation, and analysis of data relating to establishments.

For promoting uniformity and comparability in the presentation of statistical data collected by various agencies of the U.S. Government, state agencies, trade associations, and private research organizations.

Source: North American Industry Classification System, 2012

Recession –

The National Bureau of Economic Research (NBER) defines recession as "a period of falling economic activity spread across the economy, lasting more than a few months."

About Our Survey

What Data Do We Collect?

Value of Shipments

New Orders (net of cancellations)

Unfilled Orders (end-of-month order backlog)

Total Inventories (and stages of fabrication:

Materials and Supplies Work in Process Finished Goods)



About Our Survey

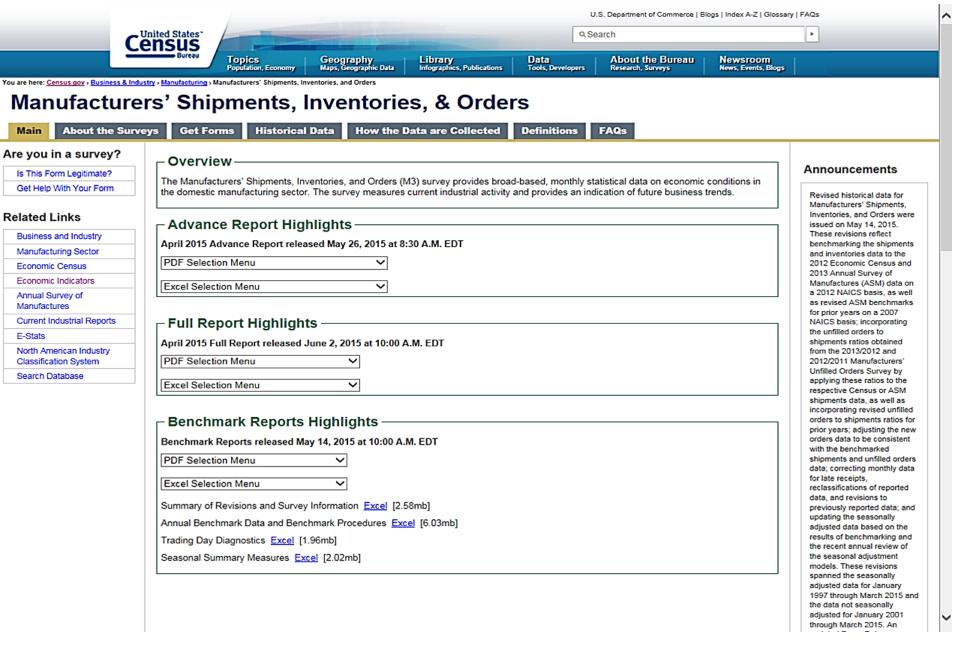
What Products Do We Produce?

The Advance Report on Durable Goods Manufacturers' Shipments, Inventories, and Orders

The Full Report on Manufacturers' Shipments, Inventories, and Orders

Manufacturing and Trade Inventories and Sales (MTIS) Report







About Our Survey

How Far Back Do Our Statistics Go?

How Far Back Do Our Statistics Go? How Far Back Do Our Statistics Go?

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How Far Back Do Our Statistics Go? How Far Back Do Our Statistics Go?



Monthly Value of Shipments for U.S. Total Manufacturing from 1958-1991 (SIC Based)

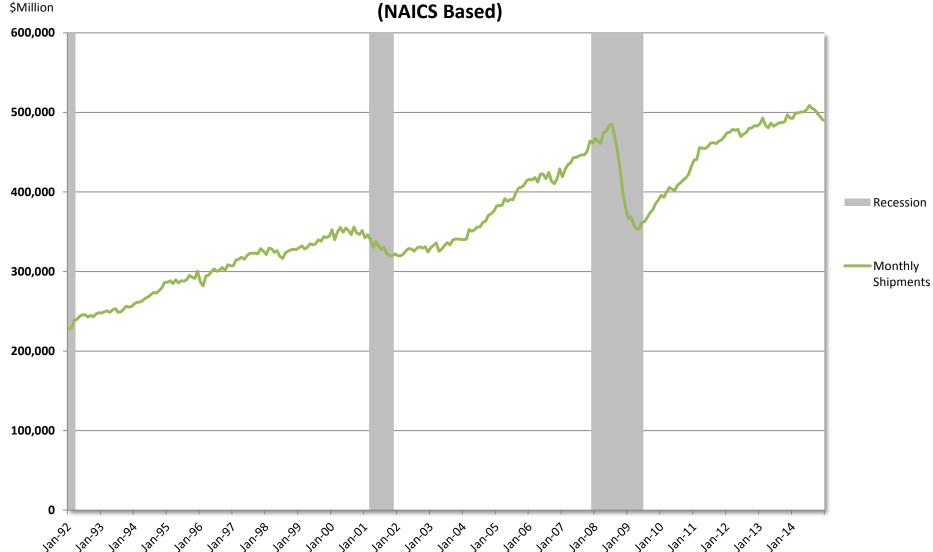


U.S. Department of Commerce

Economics and Statistics Administration

U.S. CENSUS BUREAU census.gov

Monthly Value of Shipments for U.S. Total Manufacturing from 1992-2014



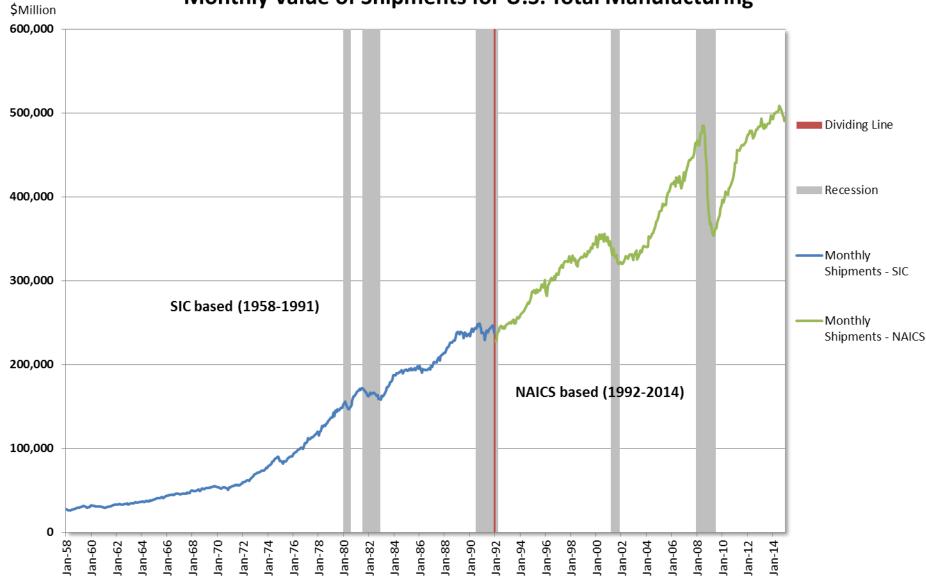


U.S. Department of Commerce

Economics and Statistics Administration

U.S. CENSUS BUREAU census.gov

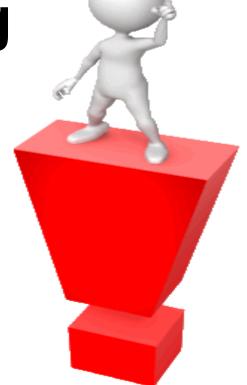
Monthly Value of Shipments for U.S. Total Manufacturing



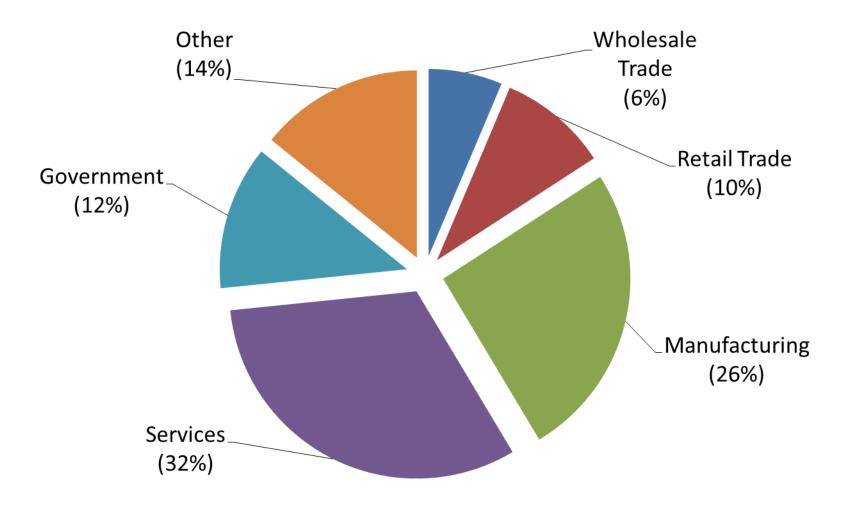




Manufacturing & GDP

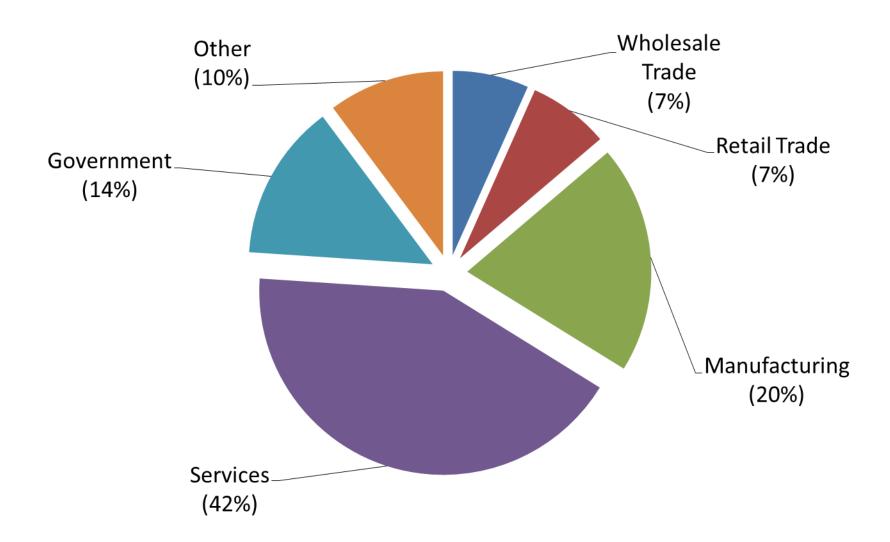


GDP Components in 1947



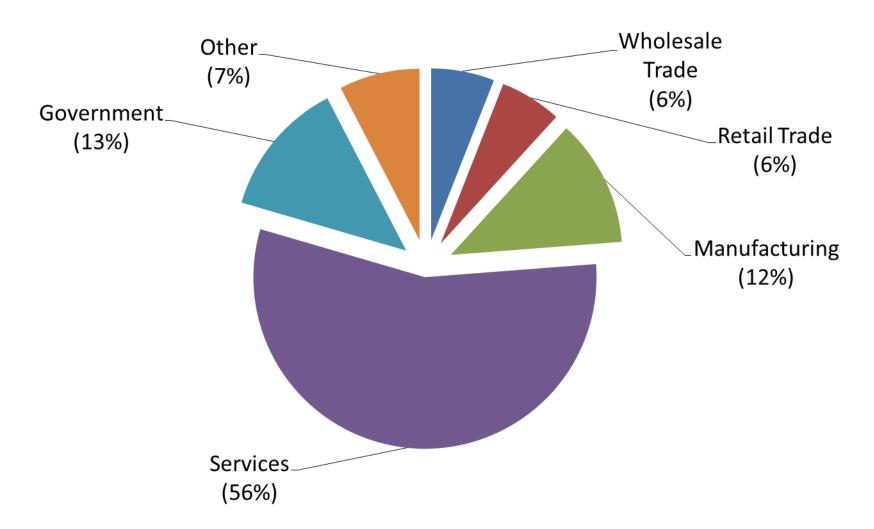


GDP Components in 1980





GDP Components in 2014





GDP in 1947, 1980, 2014

GDP - 1947



Services – 32%

GDP - 1980



Services - 42% Manufacturing – 26% Manufacturing – 20%

GDP - 2014



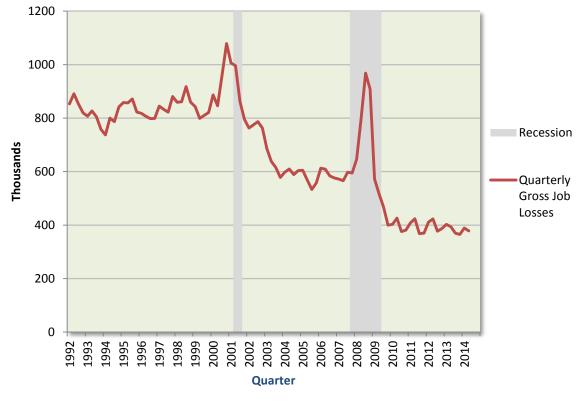
Services - 56% **Manufacturing - 12%**



Manufacturing & Labor

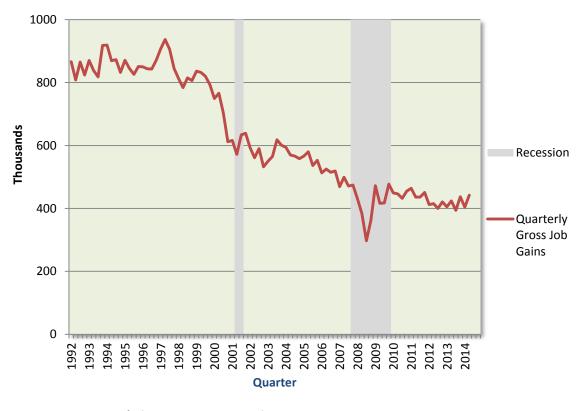


Gross Manufacturing Job Losses



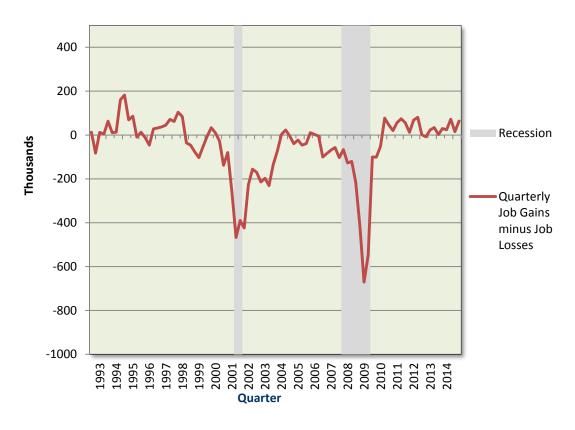
Year	Qtr1	Qtr2	Qtr3	Qtr4
1992			853	891
1993	853	820	807	827
1994	805	758	737	800
1995	787	842	858	857
1996	872	823	818	807
1997	798	799	845	833
1998	822	881	859	861
1999	918	860	843	799
2000	810	821	887	846
2001	961	1079	1006	996
2002	861	795	763	775
2003	787	763	686	638
2004	615	578	598	610
2005	589	604	605	569
2006	533	558	613	609
2007	584	576	572	566
2008	598	595	646	798
2009	968	909	572	517
2010	468	400	403	426
2011	376	381	408	424
2012	368	370	411	423
2013	377	387	403	394
2014	370	365	389	378

Gross Manufacturing Job Gains



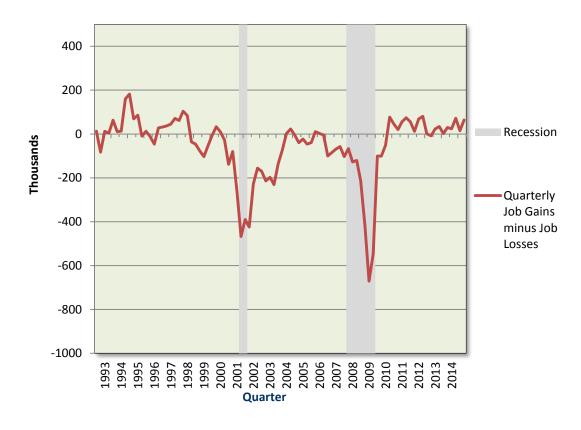
Year	Qtr1	Qtr2	Qtr3	Qtr4
1992			866	808
1993	865	824	870	838
1994	818	918	919	869
1995	873	832	871	845
1996	826	851	850	844
1997	843	870	907	937
1998	906	845	813	784
1999	815	806	836	832
2000	820	793	749	766
2001	703	612	616	572
2002	634	639	593	561
2003	590	532	550	565
2004	618	601	594	570
2005	566	558	566	580
2006	536	553	513	525
2007	515	519	469	499
2008	471	474	431	383
2009	297	362	472	416
2010	417	477	449	446
2011	432	455	464	436
2012	436	451	412	415
2013	400	421	405	424
2014	394	437	404	442

Gross Manufacturing Job Gains *minus* **Gross Manufacturing Job Losses**



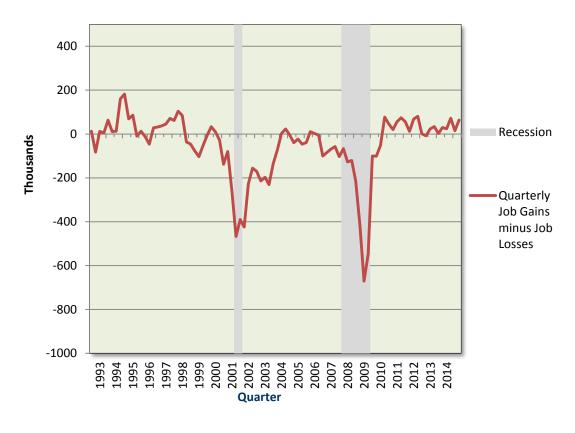
Year	Qtr1	Qtr2	Qtr3	Qtr4
1992	0	0	13	-83
1993	12	4	63	11
1994	13	160	182	69
1995	86	-10	13	-12
1996	-46	28	32	37
1997	45	71	62	104
1998	84	-36	-46	-77
1999	-103	-54	-7	33
2000	10	-28	-138	-80
2001	-258	-467	-390	-424
2002	-227	-156	-170	-214
2003	-197	-231	-136	-73
2004	3	23	-4	-40
2005	-23	-46	-39	11
2006	3	-5	-100	-84
2007	-69	-57	-103	-67
2008	-127	-121	-215	-415
2009	-671	-547	-100	-101
2010	-51	77	46	20
2011	56	74	56	12
2012	68	81	1	-8
2013	23	34	2	30
2014	24	72	15	64

Gross Manufacturing Job Gains *minus* **Gross Manufacturing Job Losses**



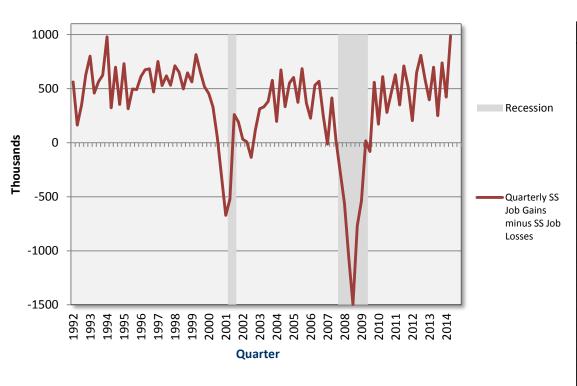
Year	Qtr1	Qtr2	Qtr3	Qtr4
1992	0	0	13	-83
1993	12	4	63	11
1994	13	160	182	69
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Gross Manufacturing Job Gains *minus* **Gross Manufacturing Job Losses**



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2010	-51	77	46	20
2011	56	74	56	12
2012	68	81	1	-8
2013	23	34	2	30
2014	24	72	15	64

Gross Service Sector Job Gains minus Gross Service Sector Job Losses

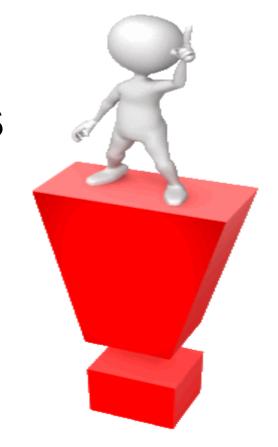


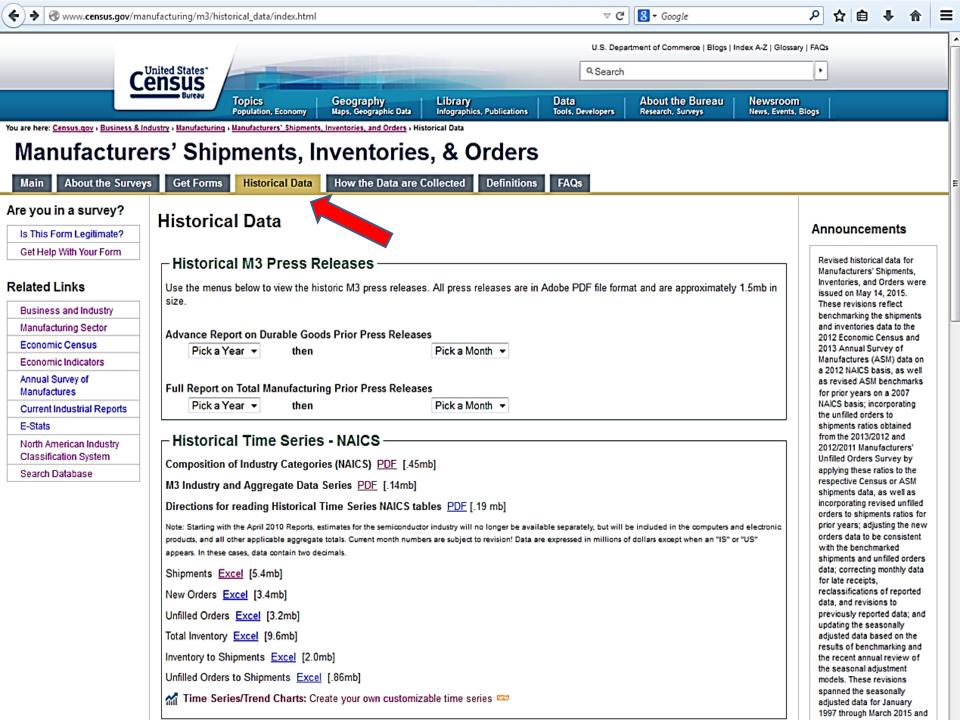
Year	Qtr1	Qtr2	Qtr3	Qtr4
1992	0	0	562	163
1993	351	628	800	459
1994	565	624	979	323
1995	699	354	731	313
1996	497	492	613	675
1997	683	469	752	529
1998	619	531	712	652
1999	497	646	562	815
2000	656	518	455	331
2001	51	-303	-672	-523
2002	261	192	32	8
2003	-136	117	314	331
2004	382	577	197	674
2005	333	552	604	373
2006	685	365	227	531
2007	568	243	-13	415
2008	21	-277	-563	-1067
2009	-1496	-768	-539	18
2010	-81	560	172	611
2011	279	459	629	349
2012	710	516	204	650
2013	808	583	396	698
2014	250	739	422	988

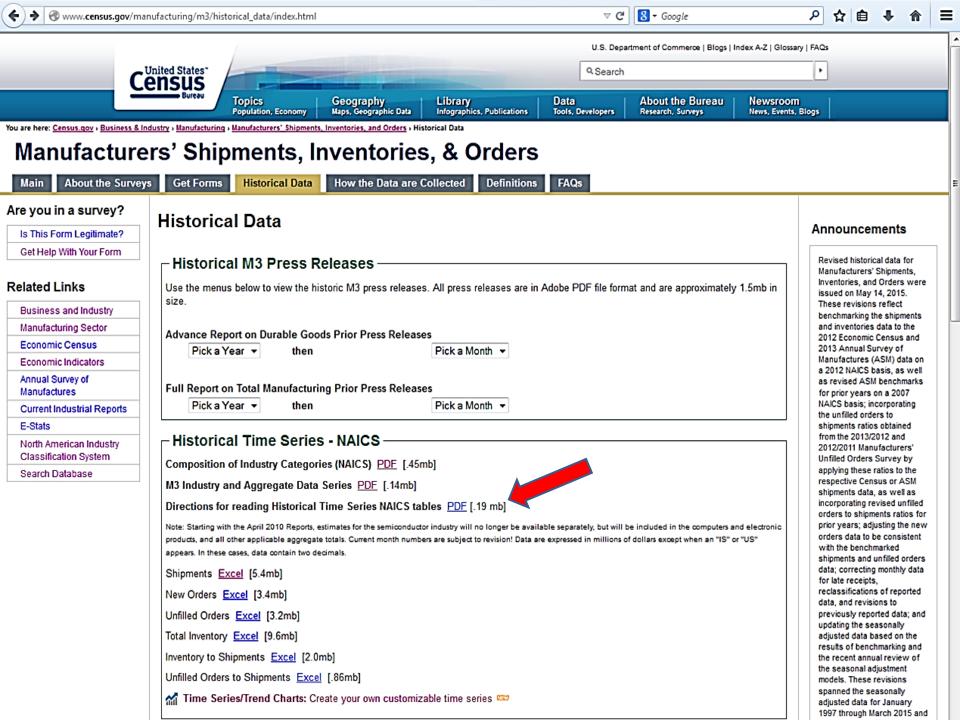


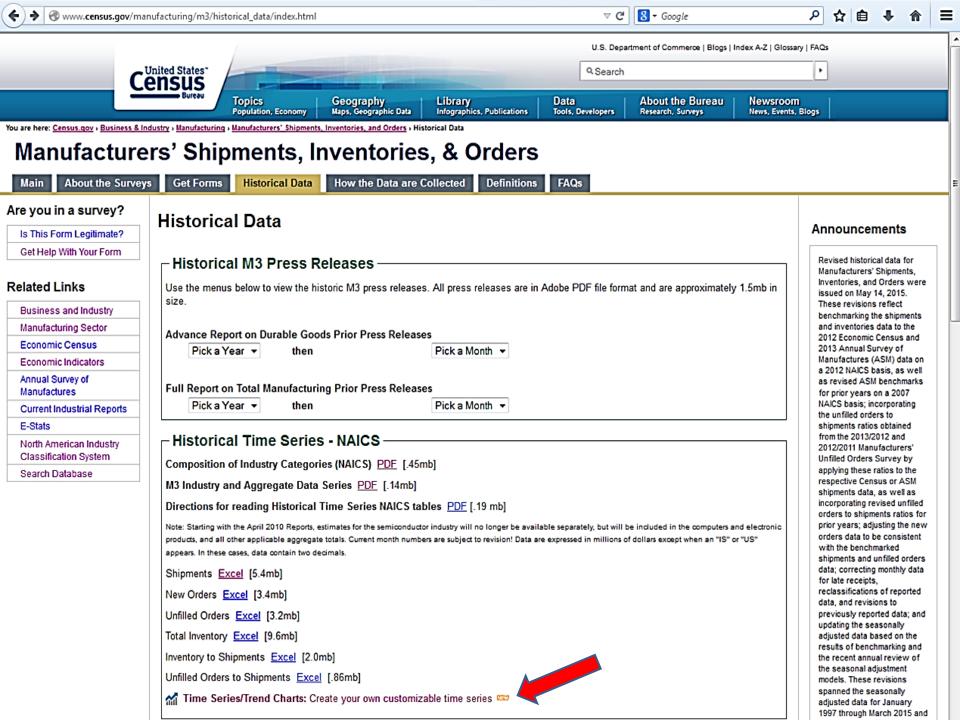
Products across Indicators

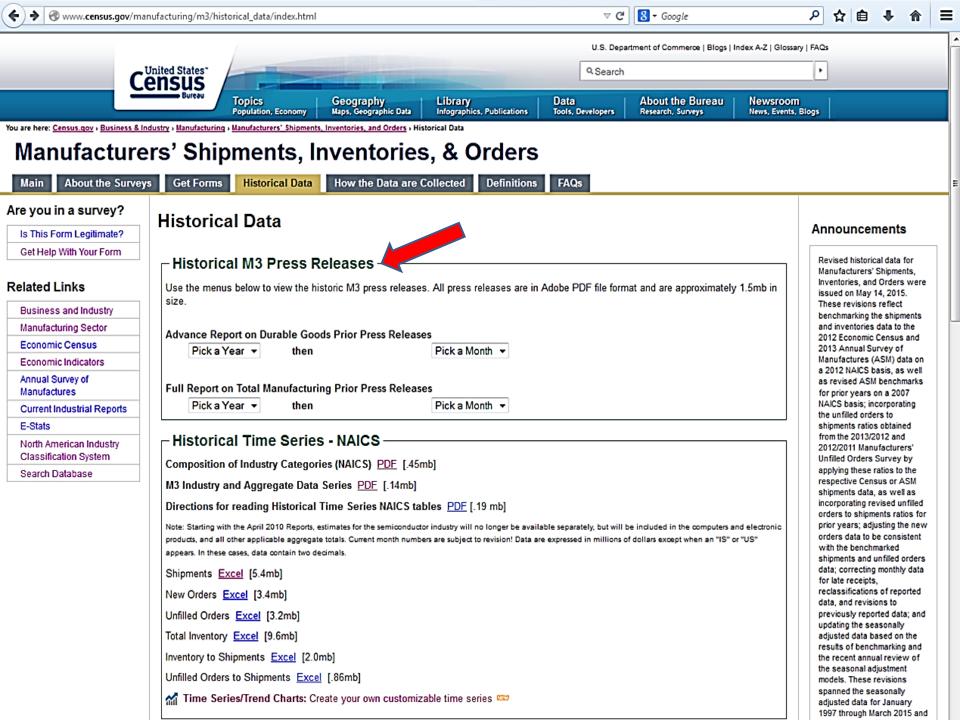
How Can This Help You?!



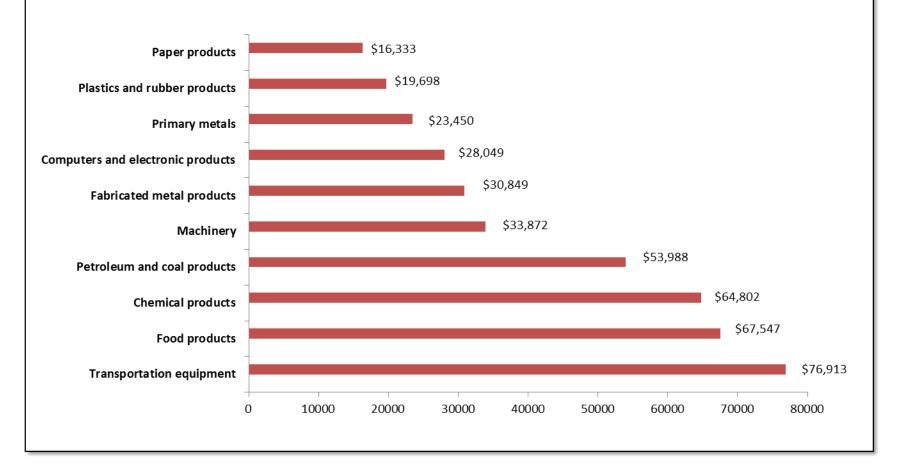






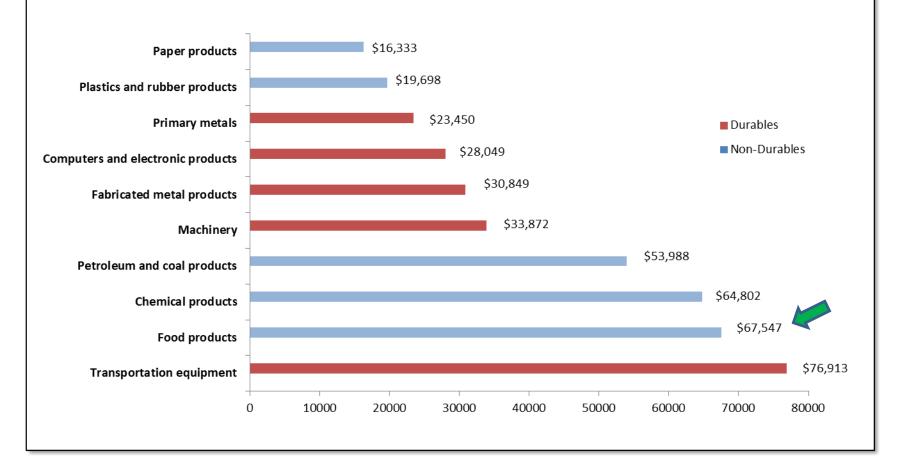


Top 10 Industries by Monthly Value of Shipments December 2014 (millions of dollars)



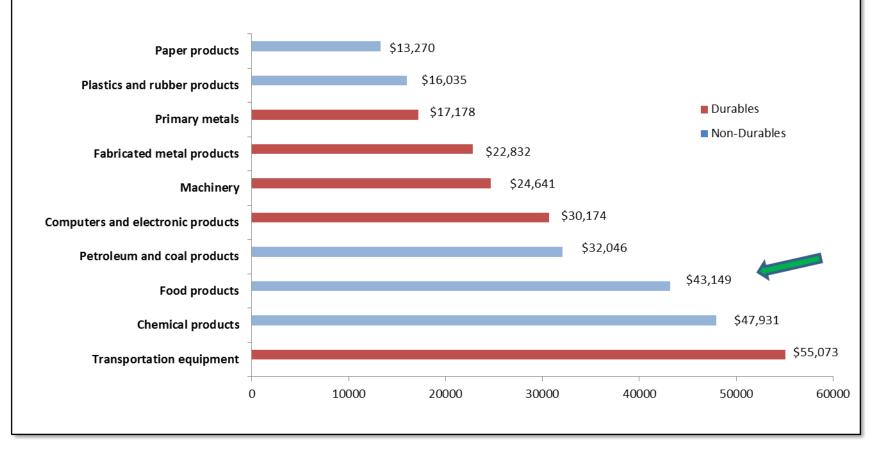


Top 10 Industries by Monthly Value of Shipments December 2014 (millions of dollars)





Top 10 Industries by Monthly Value of Shipments December 2004 (millions of dollars)



Source: US Census Bureau, Manufacturers' Shipments, Inventories, and Orders Seasonally adjusted. Estimates are not adjusted for price changes.

Top 10 Industries by Monthly Value of Shipments December 1992 (millions of dollars)



US Census Bureau, Manufacturers' Shipments, Inventories, and Orders Seasonally adjusted. Estimates are not adjusted for price changes.



Go



People

Business

Select the report/survey from which you wish to retrieve data:

Manufacturers' Shipments, Inventories, and Orders

Geography

Data Research

Newsroom

Q Search

You are here: Census.gov > Business & Industry > Time Series / Trend Charts

Business and Industry

Main About the Surveys Data by Geography Data by Survey FAQs In This Section: M TIME SERIES / TREND CHARTS Technical Document [PDF, 825KB] Please follow the numbers in order. Chart Instructions

Download Data Sets

[PDF, 658KB]

Data by Sector:

Economy-Wide

International Trade

 Manufacturing Retail Trade

Wholesale Trade

Other Sectors

Services

- Select a date range: Start: 1992 ▼ End: 2015 ▼
- Select Industry or Category: Construction Machinery Governments
 - Select one Item: Total Inventories
 - Select Geographical Level: U.S. Total ▼

Select as available:

Seasonally Adjusted

Not Seasonally Adjusted

Contact Us: **Email**

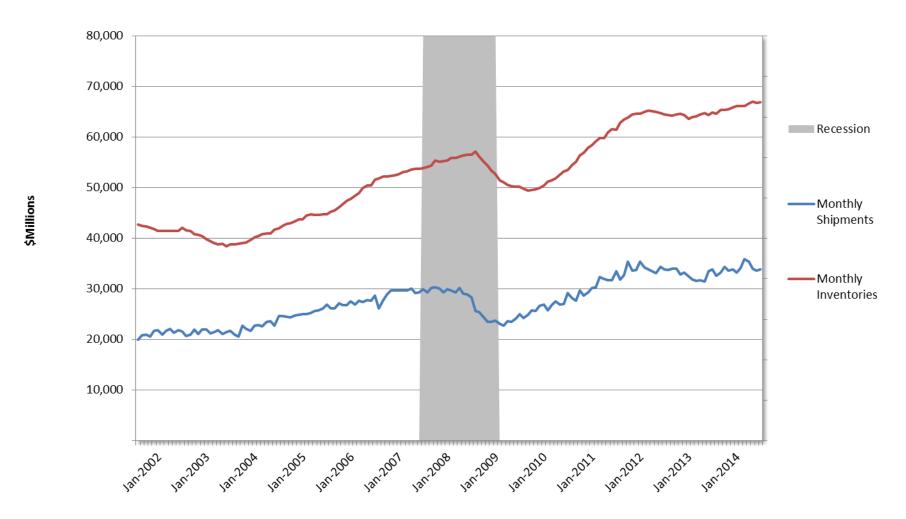
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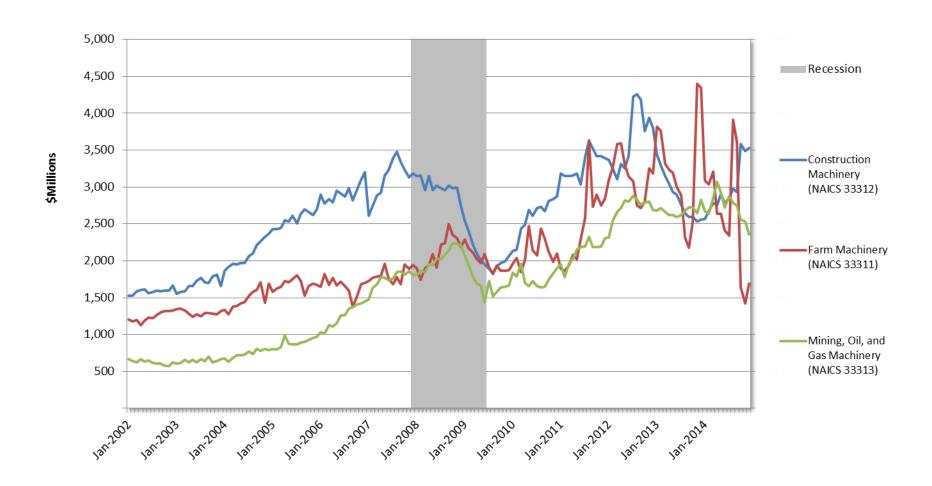


Monthly Shipments and Inventories Machinery - NAICS 333



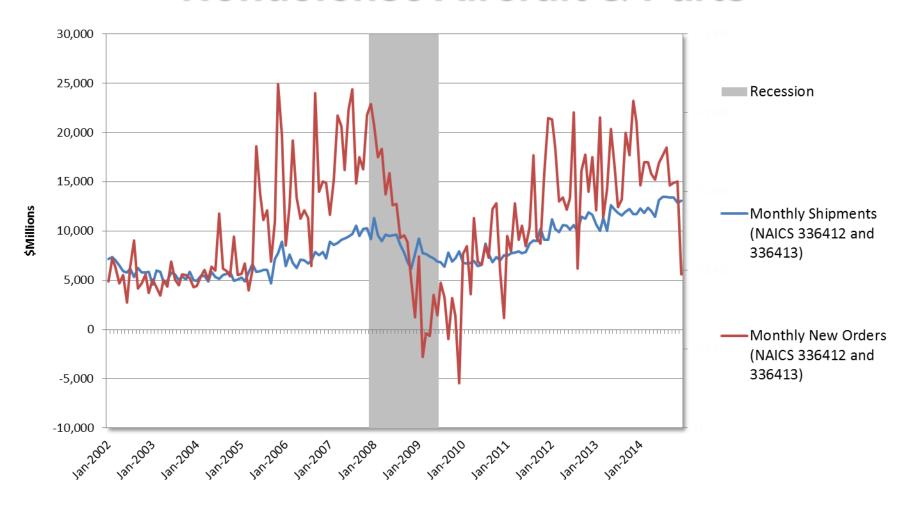


Monthly Shipments by Type of Machinery





Monthly Shipments and New Orders Nondefense Aircraft & Parts





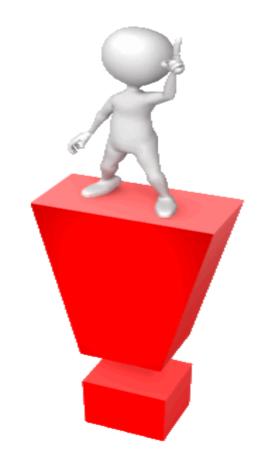
Petroleum across Indicators Monthly Shipments







Related Economic Indicators



Related Economic Indicators



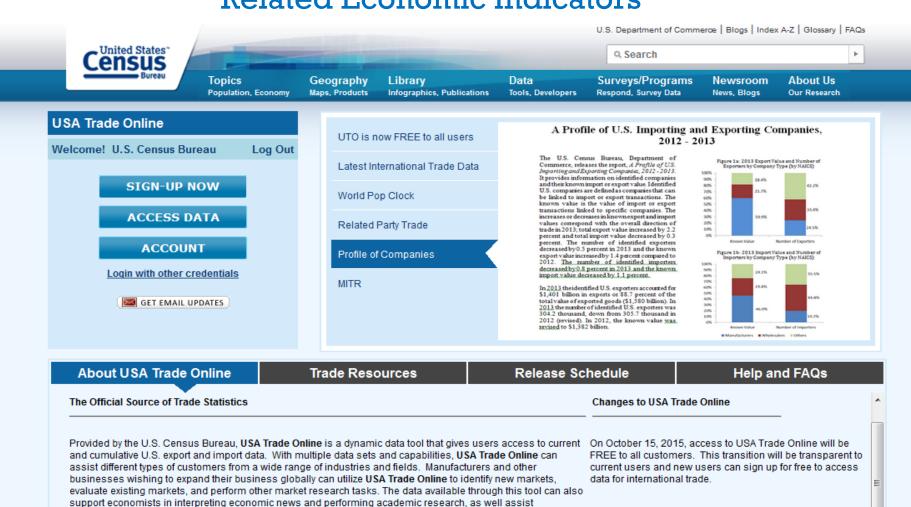
Census.gov > Business & Industry > Manufacturing & Trade Inventories & Sales

Manufacturing & Trade Inventories & Sales





Related Economic Indicators





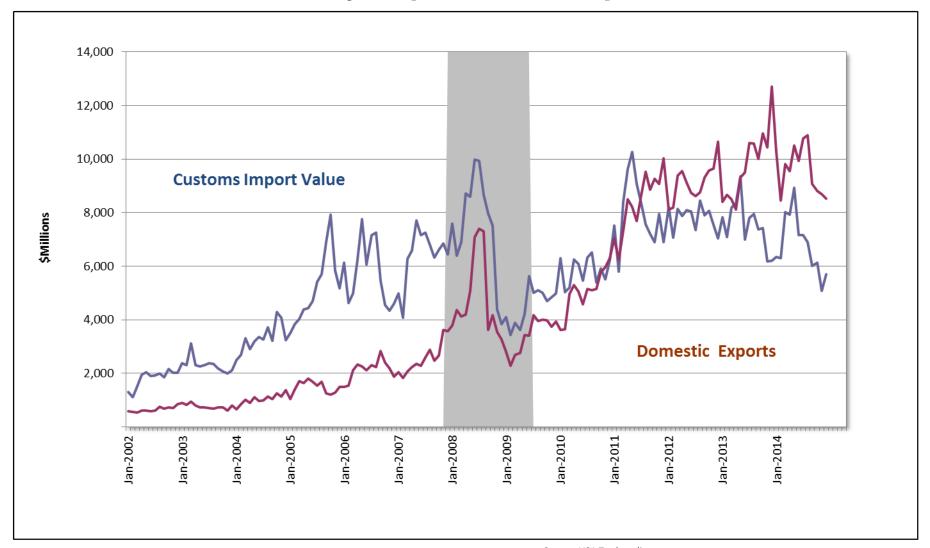
Goods and Services Report.

governments and federal agencies in analyzing domestic and international trade policies.

This powerful software allows users to create customized reports and colorful charts detailing international trade data at different levels. All data are updated each month with the release of the latest U.S. International Trade in

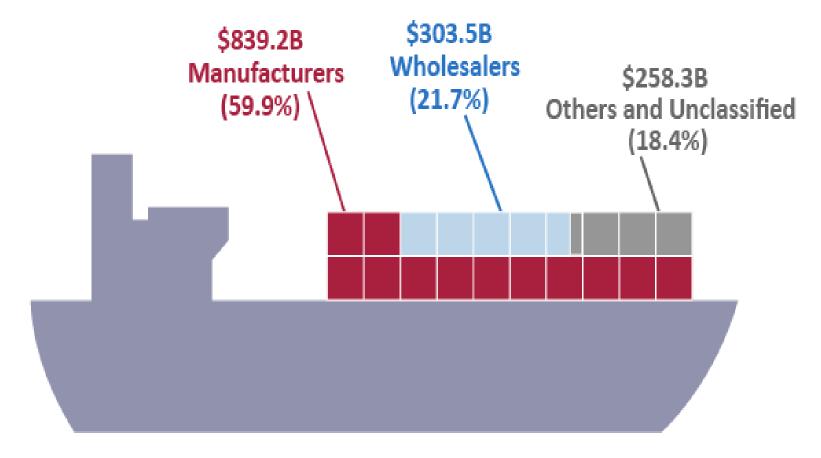
For more details please click here.

Related Economic Indicators Monthly Imports and Exports





In 2013, About 6 in 10 U.S. Export Dollars Came From Manufacturers*



"Graphic shows the known value of the portion of U.S. exports that could be matched to specific companies. Source: U.S. Census Bureau, A Profile of U.S. Importing and Exporting Companies, 2012 - 2013.



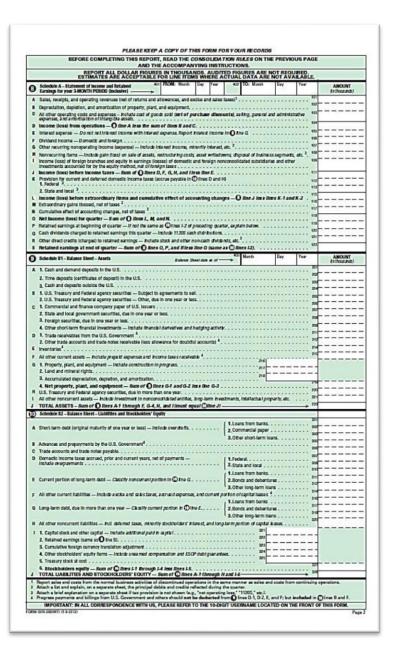
Related Economic Indicators Quarterly Financial Report (QFR)

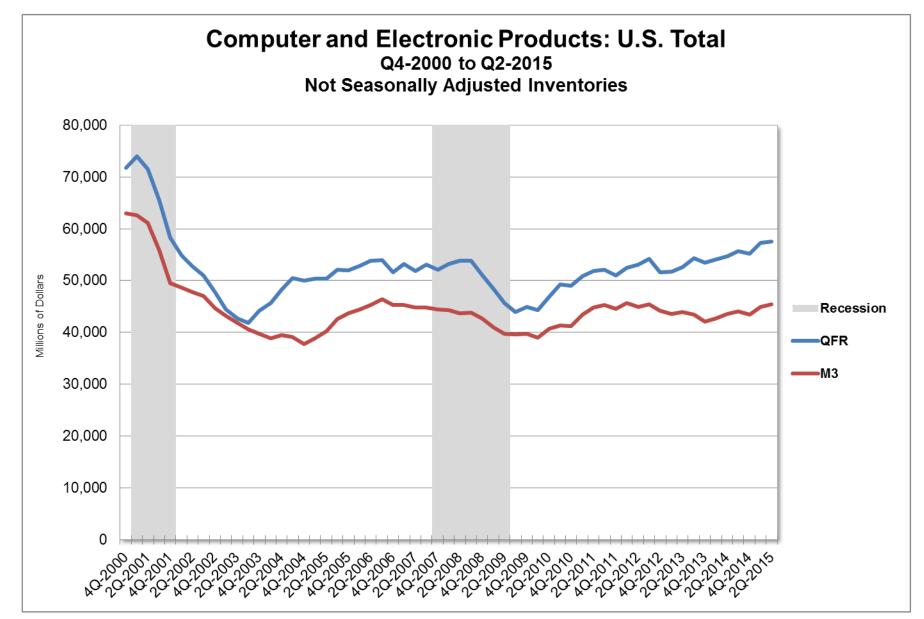
NAICS Sector Coverage				
21	Mining, Quarrying, and Oil and Gas Extraction			
31-33	Manufacturing			
42	Wholesale Trade			
44-45	Retail Trade			
51	Information			
54	Professional, Scientific, and Technical Services (Except Legal Services)			

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biff 1 (800) 272-4250 between a.m. and 5 p.m. Eastern time fenday through Friday						
fete - Audited figures are not required. stimates are acceptable for line tiems where chall data are not available.						
aubmit VIA Internet Reporting at: conhelp.census.go.wight w Mail for U.S. CENSUS BUREAU 1201 East 10th Street Jeffersonville, IN 87132-0001 or FAX for 1 1000 447-458	1					
NTERNET REPORTING — You may	complete this survey	online at:	econhelp.cens	us.go	v/qfr	
Username: Password	2	Pro-Service Co.	Use your firm's	uniqu	e u semame and origin al разх м	ord.
Name and title Area code Numi Telephone ()		I I I	e-mail address MAFax ATION NAMED IN	1	ADDRESS BOX	
2 a. Annual closing date of this	corporation @	Month		THE	ADDRESS BOX	
 Federal Employer Identification Corporation status - Mark "X" 			ed or me med da	teif	anmoration is no longer on	ratina
		th Day	Vent	_		Year
Is this corporation owned more		another co				
a No D b. Yes D		FEIN, and	d address assigne	d to	this corporation below.	
name	1	1_1	TITI	Т	Address	
	re than 50 percent of	any other	corporation - Ma	ark "	C only ONE box.	
Does this corporation own mo				eed t	o page 2.	
Does this corporation own mo	idation Rules below.		b. No ☐ – Proc		(all tiers) owned	Number
2. Yes STOP! Read Consol 3. What is the total number of do more than 50 percent by this of	mestic and foreign co orporation?	orporation	s directly or indi		061	
2. Yes STOP! Read Consol 3. What is the total number of do more than 50 percent by this of	mestic and foreign co orporation? lation Rules below, ho	orporation	s directly or indi		061	2
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Related Economic Indicators Quarterly Financial Report (QFR)

- QFR Produces 2 of the 13 Economic
 Indicators released by the Census Bureau.
 - QFR for Manufacturing, Mining, Wholesale
 Trade and Selected Service Industries
 - QFR for Retail Trade
- QFR is the primary source for BEA's
 estimates of domestic corporate profits,
 dividend and inventory components of the
 National Income and Product Accounts.

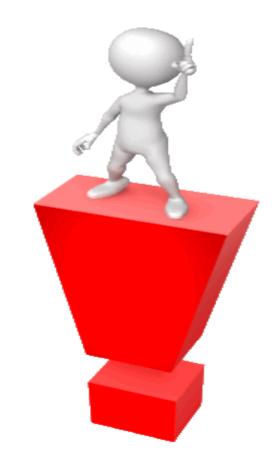




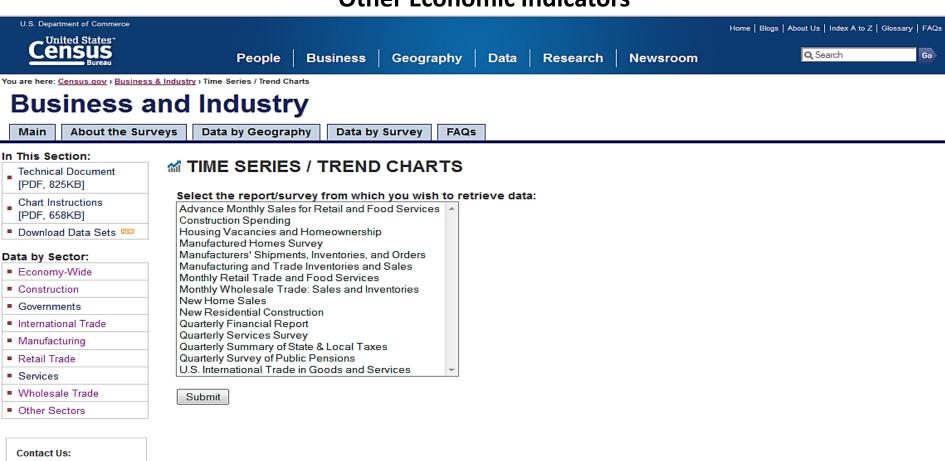




Other Economic Indicators



Other Economic Indicators

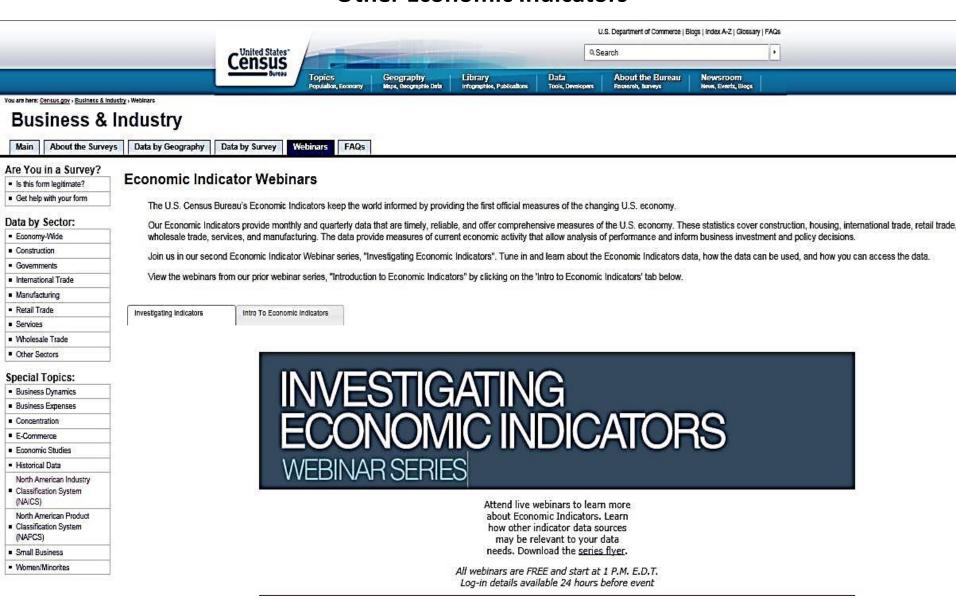


Measuring America-People, Places, and Our Economy



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Other Economic Indicators





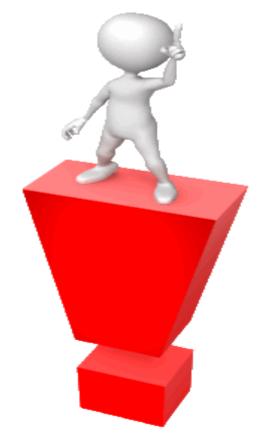
Guide to Data Sources for Manufacturing from the U.S. Census Bureau

Frequency	Title (with link to data)	Contents
Monthly	Manufacturers' Shipments, Inventories, and Orders	Value of shipments, inventories, new orders and unfilled orders
,	Manufacturing and Trade Inventory and Sales	Sales, inventories, and inventory/sales ratios
Monthly, quarterly, or annual	Current Industrial Reports	Value of shipments and/or quantity of production for selected 10-digit product categories; not available for most manufacturing categories
Quarterly	Quarterly Financial Report	Income, retained earnings, balance sheets, and related financial and operating ratios for the domestic operations of manufacturing corporations with assets over \$250,000
	Quarterly Plant Capacity Utilization	Utilization rate relative to full production capacity and national emergency production capacity
	Quarterly Workforce Indicators	Employment, job creation, separations, turnover, average monthly earnings
Annual	Annual Survey of Manufactures Business R & D and Innovation Survey	Value of shipments, cost of materials, employment, payroll for industries by state; more statistics at national level; value of product shipments for 7-digt product classes at national level Current and projected R&D spending and employment. Data are published by NSF.
	Exports from Manufacturing Establishments	Value of shipments and employment related to direct exports and supporting shipments by state and, separately, by subsector
	Profile of U.S. Exporting Companies	Number of exporters and value of exports by employment size of company for the U.S.; number of exporting companies by state
	Annual Capital Expenditures Survey	Capital expenditures for structures and equipment for companies with paid employees
	Information and Communication Technology Survey	Non-capitalized expenditures for information and communication technology equipment and software
	Business Dynamics Statistics	Number of establishments and year-to-year change in employments for births, death, expansions, and contractions by firm age and employment-size. Sector classification is by SIC.
	County Business Patterns	Employees; payroll; number of establishments with paid employees by employment size of establishment
	E-Stats (E-Commerce Statistics)	Total value of shipments and e-commerce value of shipments
	Non-employer Statistics	Number of establishments and sales of firms with no paid employees
	Statistics of U.S. Businesses	Number of firms, employees, payroll, (and revenue, for 2002 only) by employment-size of the enterprise
	Statistics of U.S. Businesses Employment Change	Number of establishments and year-to-year change in employment for births, deaths, expansions, and contractions.
	Management and Organizational Practices Survey	The Management and Organizational Practices Survey provides information on the dimensions of organizational capital for sector 31-33.
Every 5 years	Economic Census	Number of establishments, sales, employees, and payroll (for additional topics available, see Economic Census details)
	Economic Census of Island Areas	Number of establishments, sales, employees, and payroll for establishments with payroll
	Survey of Business Owners	Number of firms, sales, employees, and payroll for all businesses and for businesses owned by females, Hispanics, and major race categories (plus national-only data on veteran status and other owner and business characteristics)

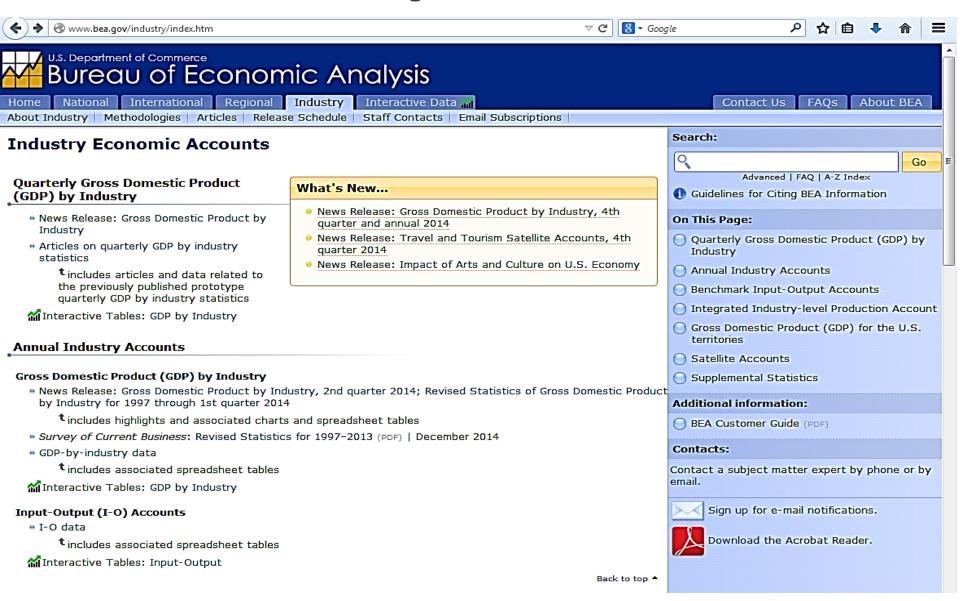




Other Manufacturing Information Resources

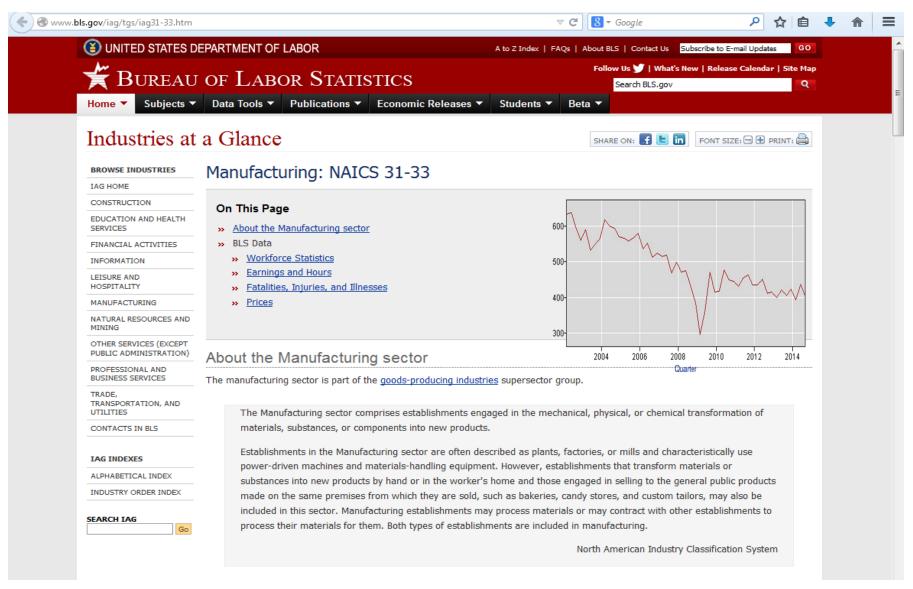


Other Related Manufacturing Data Sources





Other Related Manufacturing Data Sources





Other Related Manufacturing Data Sources



Google" Custom Search



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FIND AN EVENT

RESOURCES

ABOUT

CONTACT

GETTING INVOLVED IN MANUFACTURING DAY

Webinars to help event planners get started



Career Pathways on #MFGday15!
Great letter to the editor of The
Ledger: http://t.co/OfnhC7dlR2

- 36 min 54 sec ago

66 See "How It's Made" On Manufacturing Day!: http://t.co/oQo1VVcyRr via @YouTube

— 1 day 4 hours ago



Information and Data covering Manufacturing Day 2015



The Top Ten Manufacturing Subsectors of the Economy

September 30, 2015
Take a look at this five-year comparison of the top 10 manufacturing subsectors of the economy using statistics

from the Economic Census.



A Snapshot of Monthly Manufacturing Statistics in the United States

October 02, 2015
This Industry Snapshot presents
the result of the Manufacturers'
Shipments, Inventories, and Orders
(M3) Survey conducted by the U.S.
Census Bureau.



Manufacturing in America: 2015

October 02, 2015
In recognition of the fourth
annual Manufacturing Day, the
Census Bureau celebrates the
importance of manufacturing
to the nation's economy.



Industry Snapshot: Manufacturing (NAICS 31-33)

The Industry Snapshots present key statistics from three Census Bureau economic programs, as well as per capita ratios using data from Population Estimates.

Manufacturing and International Trade Report



Manufacturing and International Trade Report Summary

On August 28, 2015, the U.S. Census Bureau is releasing the 2013 Manufacturing and International Trade Report (MITR). This annual report contains manufacturing data from the 2013 Annual Survey of Manufactures and the 2012 Economic Census Subject Series. The MITR also includes official U.S. export and import merchandise trade statistics for those same years.

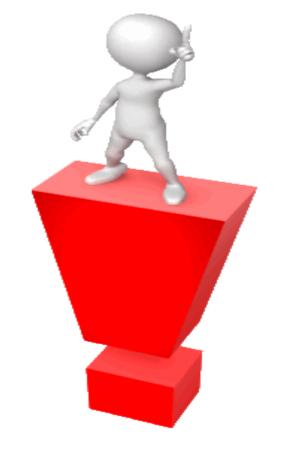
Wrap Up

- Manufacturing is comprised of the mechanical, physical, or chemical transformation of materials, substances, or components into new products.
- A good source of Monthly Manufacturing Data is the Manufacturers' Shipments, Inventories, and Orders Survey (M3).
- M3 data can be compared with other Census Bureau, Economic Indicator data to aid your, business, instruction, or research.
- Pay attention to the composition of the data when comparing data across Indicators.
- There are other manufacturing data and information resources available.

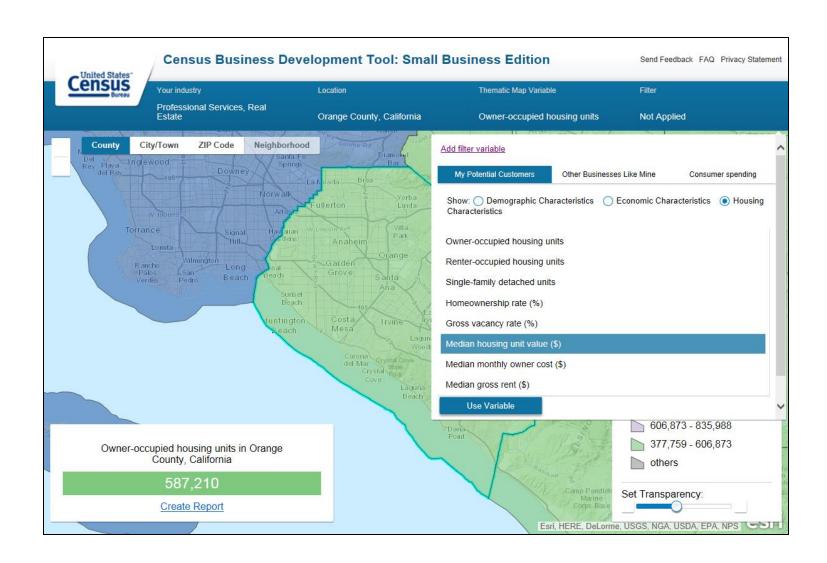




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Apps,
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Training



Census Business Builder





SELECT AN INDUSTRY

- 21 Mining, quarrying, and oil and gas extraction
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale trade
- 44-45 Retail trade
- 🚰 48-49 Transportation and warehousing
- 51 Information
- 52 Finance and insurance
- 53 Real estate and rental and leasing
- 54 Professional, scientific, and technical services
- 55 Management of companies and enterprises
- 56 Administrative and support and waste management and remediation services
- 61 Educational services
- 🖰 62 Health care and social assistance
- 71 Arts, entertainment, and recreation
- 72 Accommodation and food services
- № 81 Other services (except public administration)

2012 NAICS SEARCH

Enter a NAICS code or Title

This application provides access to the Census Bureau programs that provide economic data for a user-selected industry. To choose the industry you are interested in:

- Enter the 2012 North American Industry Classification System (NAICS) code or keyword into the NAICS SEARCH box above, or
- Choose the industry from the SELECT AN INDUSTRY menu to the left.

For an overview of the information presented in the ISP, see <u>ISP Preview.</u>
For tips on how to use the ISP, see <u>ISP Tips and Tricks</u>



America's Economy: Mobile App

https://www.youtube.com/watch?v=cd9cZ9sPSpI

Indicators Available:

- Advance Monthly Retail Sales
- Advance Report Durable Goods
- Business Inventories
- Construction Spending
- Consumer Price Index
- Homeownership Rate
- International Trade
- Manufacturers' Goods
- Monthly Wholesale
- New Residential Construction

- New Residential Sales
- Nonfarm Payroll
- Personal Income
- Producer Price Index
- QFR–Manufacturing
- QFR–Retail Trade
- Quarterly Services Survey
- Real Gross Domestic Product
- Unemployment Rate



www.census.gov/mobile

Available for iPhone, iPad, and Android devices

Additional Training

- Training Resource Library -http://www.census.gov/mso/www/training/library.html
- International Trade
 - Training on Foreign Trade Regulations, classification, filing, and more -http://www.census.gov/foreign-trade/outreach/
 - Global Reach Blog http://globalreach.blogs.census.gov/

Upcoming Webinars & Short Survey:

https://questionweb.com/21106

Recent and Upcoming Indicator Improvements

Here at the Census Bureau we make it part of our mission to keep our data products relevant. To achieve that goal, we continuously work on enhancements to existing surveys and reports. In this webinar, we will look back at the improvements we made in 2015 and forward to those in our future.

The Building Blocks of Gross Domestic Product

You may already know that the GDP measures economic activity, but do you know how the Economic Indicators data are included? In this webinar, you will learn specifically how the U.S. Census Bureau's Economic Indicators contribute to the Gross Domestic Product.



January 27, 2016

TBA

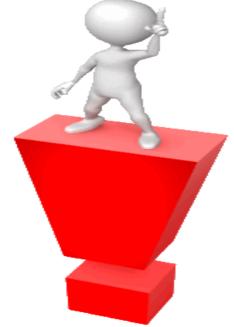
Visit www.census.gov/econ/webinar for a complete list of upcoming webinars





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Webinar: www.census.gov/econ/webinar

